IN THE CLAIMS:

A complete listing of the claims is set forth below. Please amend the claims as follows:

1-42. (Canceled)

43. (New) A computer-implemented system for managing data associated with

available-to-promise (ATP) products, comprising:

a memory storing a hierarchy of seller models, each seller model representing a seller for

one or more products, each product associated with a product forecast model representing:

forecasted sales of the product through the seller;

planned supply of the product;

customer orders for the product through the seller; and

pre-allocated supply of the product to the seller, the pre-allocated supply is a

supply of the product pre-allocated to the seller to promise to subsequent customer orders for the

product through the seller; and

a processor coupled with the memory, the processor computes the amount of the product

that is ATP at a seller according to at least the planned supply of the product, the customer orders

for the product through the seller, the pre-allocated supply of the product to the seller, and the

amount of the product that is ATP at one or more other sellers in the hierarchy,

wherein the processor further adjusts the pre-allocated supply of the product to the seller

according to customer orders across a time horizon and recomputes the amount of the product

that is ATP at the seller according to the adjusted pre-allocated supply.

Supplemental Response to Office Action Attorney Docket No. 020431.0662 Serial No. 09/510,607 Page 2 of 32 44. (New) The system of Claim 43, wherein the processor further adjusts the pre-

allocated supply of the product to the seller according to one or more business criteria selected

from the group consisting of seller criteria, product criteria, forecast criteria, supply criteria,

customer order criteria, and policy criteria

45. **(New)** The system of Claim 43, wherein the processor further:

communicates product forecast models to a remote system;

receives from the remote system a promise computed at the remote system for a customer

order requesting a quantity of a product through the seller, the promise computed according to

the pre-allocated supply of the product to the seller;

receives from the remote system adjusted product forecast models reflecting the promise;

and

recomputes the amount of the product that is ATP at the seller.

46. **(New)** The system of Claim 45, wherein:

all product forecast models for one or more sellers are communicated to the remote

system; and

wherein the processor further:

receives from the remote system the promise also computed according to the

amount of the product that is ATP at the one or more other sellers in the hierarchy; and

adjusts the amount of the product that is ATP at the one or more other sellers in

the hierarchy when the promise exceeds the pre-allocated supply of the product to the seller.

47. (New) The system of Claim 43, wherein the product forecast model further

represents a quantity of the product the seller has committed to selling and the processor adjusts

the pre-allocated supply of the product to the seller according to the committed quantity.

48. **(New)** The system of Claim 43, wherein the processor further:

accepts a customer order requesting a quantity of a product through the seller, and

computes a promise for the customer order according to the planned supply and one or more

existing customer orders, the promise restricted according to the pre-allocated supply of the

product to the seller.

49. **(New)** The system of Claim 43, wherein:

each product forecast model is extensible such that one or more policy rules is associated

with the corresponding product;

each policy rule comprises a restriction on either the forecasted sales or the pre-allocated

supply of the product to the seller; and

either the forecasted sales or the pre-allocated supply of the product to the seller is

computed according to the policy rules.

50. (New) The system of Claim 43, wherein the processor further adjusts either the

forecasted sales or the pre-allocated supply of the product to the seller according to an arrival

rate of customer orders for the product through the seller.

51. (New) A computer-implemented system for managing data associated with

available-to-promise (ATP) products, comprising:

a memory storing a hierarchy of seller models representing a seller for products that each

correspond to an item having one or more restrictions on its sale, at least two products

corresponding to the same item but with at least one different restriction, each product associated

with a product forecast model representing:

forecasted sales of the product through the seller;

planned supply of the product;

customer orders for the product through the seller; and

pre-allocated supply of the product to the seller, the pre-allocated supply is a

supply of the product pre-allocated to the seller to promise to subsequent customer orders for the

product through the seller; and

a processor coupled with the memory, the processor computes the amount of the product

that is ATP at a seller according to at least the planned supply of the product, the customer orders

for the product through the seller, the pre-allocated supply of the product to the seller, and the

amount of the product that is ATP at one or more other sellers in the hierarchy,

wherein the processor further adjusts the pre-allocated supply of the product to the seller

according to customer orders across a time horizon and recomputes the amount of the product

that is ATP at the seller according to the adjusted pre-allocated supply.

52. (New) The system of Claim 51, wherein the restrictions are selected from the

group consisting of price restrictions, quantity restrictions, and lead time restrictions.

Supplemental Response to Office Action Attorney Docket No. 020431.0662 Serial No. 09/510,607 Page 5 of 32 53. (New) The system of Claim 51, wherein the processor further adjusts the pre-

allocated supply of the product to the seller according to one or more business criteria selected

from the group consisting of seller criteria, product criteria, forecast criteria, supply criteria,

customer order criteria, and policy criteria.

54. **(New)** The system of Claim 51, wherein the processor further:

communicates product forecast models to a remote system;

receives from the remote system a promise computed at the remote system for a customer

order requesting a quantity of one or more items through the seller, the promise computed

according to at least the pre-allocated supply for corresponding products;

receives from the remote system adjusted product forecast models reflecting the promise;

and

recomputes the amounts of the corresponding products that are ATP at the seller.

55. (New) The system of Claim 51, wherein the product forecast model further

represents a quantity of corresponding products the seller has committed to selling and the

processor adjusts the pre-allocated supply of the product to the seller according to the committed

quantity.

56. (New) The system of Claim 51, wherein the processor further:

accepts a customer order requesting quantities of one or more items through the seller;

and

computes a promise for the customer order according to the pre-allocated supply for

corresponding products, wherein the promise comprises a plurality of options each with one or

more of the restrictions specified for these products.

57. **(New)** The system of Claim 51, wherein:

each product forecast model is extensible such that one or more policy rules is associated

with the corresponding product;

each policy rule comprises a restriction on either the forecasted sales or the pre-allocated

supply of the product to the seller; and

either the forecasted sales or the pre-allocated supply of the product to the seller are

computed according to the policy rules.

58. (New) The system of Claim 51, wherein the processor further-adjusts either the

forecasted sales or the pre-allocated supply for one or more products for the seller according to

an arrival rate of customer orders for those products through the seller.

59. (New) A method for managing data associated with available-to-promise (ATP)

products, comprising:

accessing by a computer comprising a memory and a processor, a hierarchy of seller

models stored in the memory, each seller model representing a seller for one or more products,

each product associated with a product forecast model representing:

forecasted sales of the product through the seller;

planned supply of the product;

customer orders for the product through the seller; and

pre-allocated supply of the product to the seller, the pre-allocated supply is a

supply of the product pre-allocated to the seller to promise to subsequent customer orders for the

product through the seller; and

computing by the processor, the amount of the product that is ATP at a seller according

to at least the planned supply of the product, the customer orders for the product through the

seller, the pre-allocated supply of the product to the seller, and the amount of the product that is

ATP at one or more other sellers in the hierarchy,

wherein the processor further adjusts the pre-allocated supply of the product to the seller

according to customer orders across a time horizon and recomputes the amount of the product

that is ATP at the seller according to the adjusted pre-allocated supply.

60. (New) The method of Claim 59, further comprising adjusting the pre-allocated

supply of the product to the seller according to one or more business criteria selected from the

group consisting of seller criteria, product criteria, forecast criteria, supply criteria, customer

order criteria, and policy criteria.

Supplemental Response to Office Action Attorney Docket No. 020431.0662 Serial No. 09/510,607 Page 8 of 32 61. **(New)** The method of Claim 59, further comprising:

communicating product forecast models to a remote system;

receiving a promise computed at the remote system for a customer order requesting a

quantity of a product through the seller, the promise having been computed according to the pre-

allocated supply of the product to the seller;

receiving from the remote system adjusted product forecast models reflecting the

promise; and

recomputing the amount of the product that is ATP at the seller.

62. **(New)** The method of Claim 61:

wherein all product forecast models for one or more sellers are communicated to the

remote system;

wherein the promise is computed according to the amount of the product that is ATP at

the one or more other sellers in the hierarchy; and

further comprising adjusting the amount of the product that is ATP at the one or more

other sellers in the hierarchy when the promise exceeds the pre-allocated supply of the product to

the seller.

63. (New) The method of Claim 59:

wherein the product forecast model further represents a quantity of the product the seller

has committed to selling; and

further comprising adjusting the pre-allocated supply of the product to the seller

according to the committed quantity.

Supplemental Response to Office Action Attorney Docket No. 020431.0662 Serial No. 09/510,607 Page 9 of 32 64. **(New)** The method of Claim 59, further comprising:

accepting a customer order requesting a quantity of a product through the seller, and

computing a promise for the customer order according to the planned supply and one or more

existing customer orders, the promise restricted according to the pre-allocated supply of the

product to the seller.

65. (New) The method of Claim 59, wherein:

each product forecast model is extensible such that one or more policy rules is associated

with the corresponding product;

each policy rule comprises a restriction on either the forecasted sales or the pre-allocated

supply of the product to the seller; and

either the forecasted sales or the pre-allocated supply of the product to the seller is

computed according to the policy rules.

66. (New) The method of Claim 59, further comprising adjusting either the forecast

values or the pre-allocated supply of the product to the seller according to an arrival rate of

customer orders for the product through the seller.

67. (New) A method for managing data associated with available-to-promise (ATP)

products, comprising:

accessing by a computer comprising a memory and a processor, a hierarchy of seller

models stored in the memory, each seller model representing a seller for products that each

correspond to an item having one or more restrictions on its sale, at least two products

corresponding to the same item but with at least one different restriction, each product associated

with a product forecast model representing:

forecasted sales of the product through the seller;

planned supply of the product;

customer orders for the product through the seller; and

pre-allocated supply of the product to the seller, the pre-allocated supply is a

supply of the product pre-allocated to the seller to promise to subsequent customer orders for the

product through the seller; and

computing by the processor, the amount of the product that is ATP at a seller according

to at least the planned supply of the product, the customer orders for the product through the

seller, the pre-allocated supply of the product to the seller, and the amount of the product that is

ATP at one or more other sellers in the hierarchy,

wherein the processor further adjusts the pre-allocated supply of the product to the seller

according to customer orders across a time horizon and recomputes the amount of the product

that is ATP at the seller according to the adjusted pre-allocated supply.

68. (New) The method of Claim 67, wherein the restrictions are selected from the

group consisting of price restrictions, quantity restrictions, and lead time restrictions.

69. (New) The method of Claim 67, further comprising adjusting the pre-allocated

supply of the product to the seller according to one or more business criteria selected from the

group consisting of seller criteria, product criteria, forecast criteria, supply criteria, customer

order criteria, and policy criteria.

Supplemental Response to Office Action Attorney Docket No. 020431.0662 Serial No. 09/510,607 70. (New) The method of Claim 67, further comprising:

communicating product forecast models to a remote system;

receiving a promise computed at the remote system for a customer order requesting a

quantity of one or more items through the seller, the promise having been computed according to

at least the pre-allocated supply for corresponding products;

receiving from the remote system adjusted product forecast models reflecting the

promise; and

recomputing the amounts of the corresponding products that are ATP at the seller.

71. **(New)** The method of Claim 67, wherein:

the product forecast model further represents a quantity of corresponding products the

seller has committed to selling; and

further comprising adjusting the pre-allocated supply of the product to the seller

according to the committed quantity.

72. **(New)** The method of Claim 67, further comprising:

accepting a customer order requesting quantities of one or more items through the seller,

and computing a promise for the customer order according to the pre-allocated supply for

corresponding products, wherein the promise comprises a plurality of options each with one or

more of the restrictions specified for these products.

73. **(New)** The method of Claim 67, wherein:

each product forecast model is extensible such that one or more policy rules is associated

with the corresponding product;

each policy rule comprises a restriction on either the forecasted sales or the pre-allocated

supply of the product to the seller; and

either the forecasted sales or the pre-allocated supply of the product to the seller is

computed according to the policy rules.

74. (New) The method of Claim 67, further comprising adjusting either the forecasted

sales or the pre-allocated supply for one or more products for the seller according to an arrival

rate of customer orders for those products through the seller.